

<110> INCYTE PHARMACEUTICALS, INC.; LAL, Preeti;
 YUE, Henry; TANG, Y. Tom;
 HILLMAN, Jennifer L.; BANDMAN, Olga;
 CORLEY, Neil C.; GUEGLER, Karl J.;
 GORGONE, Gina A.; BAUGHN, Mariah R.;
 PATTERSON, Chandra; LU, Dyung Aina M.

<120> PROTEINS REGULATING GENE EXPRESSION

<130> PF-0539 USN

<140> US 09/701,674 <141> To Be Assigned

<150> PCT/US99/13281

<151> 1999-06-11

<150> US 60/104,624

<151> 1998-10-14

<150> US 60/094,575

<151> 1998-07-29

<150> US 60/089,029

<151> 1998-06-12

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<213> Homo sapiens

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110
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Ser Leu Lys Val His Asn Glu Ser Ile Leu Asp Gln Val Trp Asn
                125
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Ile Phe Ser Glu Ala Ser Asn Ser Glu Pro Val Asn Lys Glu Gln
                                    145
Asp Gln Arg Pro Leu His Pro Val Ala Asn Pro His Ala Glu Ile
                155
Ser Thr Lys Val Pro Ala Ser Lys Val Lys Asp Ala Val Glu Gln
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                                    175
Gln Gly Glu Val Lys Lys Asn Lys Arg Glu Lys Lys Glu Glu Arg
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                                    190
Gln Lys Lys Arg Lys Arg Glu Lys Lys Glu Leu Lys Leu Glu Asn
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His Gln Glu Asn Ser Arg Asn Gln Lys Pro Lys Lys Arg Lys
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                                    220
Gly Gln Glu Ala Asp Leu Glu Ala Gly Glu Glu Val Pro Glu
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                                    235
Ala Asn Gly Ser Ala Gly Lys Arg Ser Lys Lys Lys Gln Arg
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Lys Asp Ser Ala Ser Glu Glu Glu Ala Arg Val Gly Ala Gly Lys
Arg Lys Arg Arg His Ser Glu Val Glu Thr Asp Ser Lys Lys
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                                    280
Lys Met Lys Leu Pro Glu His Pro Glu Gly Gly Glu Pro Glu Asp
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Asp Glu Ala Pro Ala Lys Gly Lys Phe Asn Trp Lys Gly Thr Ile
                305
                                    310
Lys Ala Ile Leu Lys Gln Ala Pro Asp Asn Glu Ile Thr Ile Lys
                                    325
Lys Leu Arg Lys Lys Val Leu Ala Gln Tyr Tyr Thr Val Thr Asp
                335
                                    340
Glu His His Arg Ser Glu Glu Leu Leu Val Ile Phe Asn Lys
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Lys Leu Val Lys
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   Asp

   1
   5
   6
   10
   10
   15
   15

   Ala
   Met
   Val
   Leu
   Val
   Ala
   Arg
   Asn
   Tyr
   Glu
   Arg
   Tyr
   Lys
   Asn
   Glu

   Cys
   Arg
   Glu
   Lys
   Glu
   Arg
   Glu
   Ile
   Ala
   Arg
   Gln
   Ala
   Ala

   Lys
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   40
   40
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 Met Ala Asp Glu Ala Ile Leu Gln Glu Arg Glu Arg Gly Gly Pro
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 Glu Glu Gly Val Arg Gly Gly His Pro Pro Ala Ile Gln Ser Leu
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 Ile Asn Leu Leu Ala Asp Asn Arg Tyr Leu Thr Ala Glu Glu Thr
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 85
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 Asp Lys Ile Ile Asn Tyr Leu Arg Glu Arg Lys Glu Arg Leu Met
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 100
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220 225 215 Glu Asp Glu Glu Glu <210> 4 <211> 131 <212> PRT <213> Homo sapiens <220> <221> misc\_feature <223> Incyte ID No: 1273778 <400> 4 Met Ser Gln Val Thr Phe Ser Asp Val Ala Ile Asp Phe Ser His 10 Glu Glu Trp Ala Cys Leu Asp Ser Ala Gln Arg Asp Leu Tyr Lys Asp Val Met Val Gln Asn Tyr Glu Asn Leu Val Ser Val Gly Leu Ser Val Thr Lys Pro Tyr Val Ile Met Leu Leu Glu Asp Gly Lys Glu Pro Trp Met Met Glu Lys Lys Leu Ser Lys Ala Tyr Pro Phe 65 70 75 Pro Leu Ser His Ser Val Pro Ala Ser Val Asn Phe Gly Phe Ser 80 85 Ala Leu Phe Glu His Cys Ser Glu Val Thr Glu Ile Phe Glu Leu 95 100 Ser Glu Leu Cys Val Phe Trp Val Leu His Phe Leu Ser Asn Ser 110 115 120 Pro Asn Ser Thr Val Glu Ala Phe Phe Lys Lys 125 <210> 5 <211> 411 <212> PRT <213> Homo sapiens <220> <221> misc\_feature <223> Incyte ID No: 1509715 <400> 5 Met Ser Lys Arg Pro Ser Tyr Ala Pro Pro Pro Thr Pro Ala Pro 10 Ala Thr Gln Met Pro Ser Thr Pro Gly Phe Val Gly Tyr Asn Pro Tyr Ser His Leu Ala Tyr Asn Asn Tyr Arg Leu Gly Gly Asn Pro Gly Thr Asn Ser Arg Val Thr Ala Ser Ser Gly Ile Thr Ile Pro 50 55 Lys Pro Pro Lys Pro Pro Asp Lys Pro Leu Met Pro Tyr Met Arg 65 70 Tyr Ser Arg Lys Val Trp Asp Gln Val Lys Ala Ser Asn Pro Asp

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80
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Leu Lys Leu Trp Glu Ile Gly Lys Ile Ile Gly Gly Met Trp Arg
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Asp Leu Thr Asp Glu Glu Lys Gln Glu Tyr Leu Asn Glu Tyr Glu
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Ala Glu Lys Ile Glu Tyr Asn Glu Ser Met Lys Ala Tyr His Asn
                125
                                     130
Ser Pro Ala Tyr Leu Ala Tyr Ile Asn Ala Lys Ser Arg Ala Glu
                140
                                    145
Ala Ala Leu Glu Glu Glu Ser Arg Gln Arg Gln Ser Arg Met Glu
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                                    160
Lys Gly Glu Pro Tyr Met Ser Ile Gln Pro Ala Glu Asp Pro Asp
                                    175
                170
Asp Tyr Asp Asp Gly Phe Ser Met Lys His Thr Ala Thr Ala Arg
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                                    190
Phe Gln Arg Asn His Arg Leu Ile Ser Glu Ile Leu Ser Glu Ser
                                     205
Val Val Pro Asp Val Arg Ser Val Val Thr Thr Ala Arg Met Gln
                                     220
                215
Val Leu Lys Arg Gln Val Gln Ser Leu Met Val His Gln Arg Lys
Leu Glu Ala Glu Leu Leu Gln Ile Glu Glu Arg His Gln Glu Lys
                                     250
                245
Lys Arg Lys Phe Leu Glu Ser Thr Asp Ser Phe Asn Asn Glu Leu
                260
                                     265
Lys Arg Leu Cys Gly Leu Lys Val Glu Val Asp Met Glu Lys Ile
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                                     280
Ala Ala Glu Ile Ala Gln Ala Glu Glu Gln Ala Arg Lys Arg Gln
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Glu Glu Arg Glu Lys Glu Ala Ala Glu Gln Ala Glu Arg Ser Gln
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                                     310
Ser Ser Ile Val Pro Glu Glu Glu Gln Ala Ala Asn Lys Gly Glu
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Glu Lys Lys Asp Asp Glu Asn Ile Pro Met Glu Thr Glu Glu Thr
His Leu Glu Glu Thr Thr Glu Ser Gln Gln Asn Gly Glu Glu Gly
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Thr Ser Thr Pro Glu Asp Lys Glu Ser Gly Gln Glu Gly Val Asp
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Ser Met Ala Glu Glu Gly Thr Ser Asp Ser Asn Thr Gly Ser Glu
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Ser Asn Ser Ala Thr Val Glu Glu Pro Pro Thr Asp Pro Ile Pro
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                                     40
Trp Lys Glu Met Ala Lys Gly Val Ala Val Lys Val Glu Pro
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                                     55
Arg Tyr Lys Lys Asp Lys Gln Leu Asn Glu Lys Ile Ser Leu Leu
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Arg Ser Asp Ile Thr Lys Leu Glu Val Asp Ala Ile Val Asn Ala
                                     85
                 80
Ala Asn Ser Ser Leu Leu Gly Gly Gly Gly Val Asp Gly Cys Ile
His Arg Ala Ala Gly Pro Leu Leu Thr Asp Glu Cys Arg Thr Leu
                110
                                    115
Gln Ser Cys Lys Thr Gly Lys Ala Lys Ile Thr Gly Gly Tyr Arg
                125
                                    130
Leu Pro Ala Lys Tyr Val Ile His Thr Val Gly Pro Ile Ala Tyr
                140
                                    145
Gly Glu Pro Ser Ala Ser Gln Ala Ala Glu Leu Arg Ser Cys Tyr
                155
                                    160
Leu Ser Ser Leu Asp Leu Leu Glu His Arg Leu Arg Ser Val
                170
                                    175
Ala Phe Pro Cys Ile Ser Thr Gly Val Phe Gly Tyr Pro Cys Glu
                185
                                    190
Ala Ala Ala Glu Ile Val Leu Ala Thr Leu Arg Glu Trp Leu Gly
Ser Ser Thr Arg Glu Pro Arg Xaa Asn Leu Asn Phe Xaa Glu Pro
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Lys Ile Arg Pro Leu Gln Pro Ala Val Pro Ala Cys Leu Pro Ala 35 40 Thr Val Arg Pro Ala Leu Ala Ser Ser Ser Ala Gly Leu Ser Ala Gly Phe Trp Gly Gln Lys Ser Gly Glu Pro Arg Gly Arg Val Arg Gly Asp Gln Val Arg Ala Ala Thr Phe Leu Val Ile Ser Pro Met 90 85 80 Gly Arg Arg Gly Trp Arg Asp Thr Ala Pro Pro Gly Phe Pro Thr 100 Pro Leu Leu Ser His Pro Glu Ala Ser Phe Phe Cys Ala Arg Cys 110 115 Leu Pro Lys Arg Val Gly Ala Arg Ser Pro Pro Trp Arg Val Leu 125 130 Gly Pro Gly Gly Ala Leu Gly Glu Gln Met Gly Pro Pro Leu Ala 145 140 Gly Pro Leu Gln Leu Phe Pro Ala Ala Glu Pro Ser Gly Gly Pro 155 160 Val Leu Val Ala Ser Leu Arg Ala Gln Ile Ala Gln Gly Asp Leu 180 170 175 Ala Val Ala

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Lys Arg Thr	Val	155 Asp	Leu	Cys	Gln	Lys	160 Ala	Glu	Ala	Thr	Gly	165 Val
Ser Trp Ile		170					175					180
ser hp me	1111	185	nis	GIY	AIG	TIII	190	Giu	Giu	ALG	1113	195
Pro Val His	Tyr	Asp 200	Ser	Ile	Lys	Ile	11e 205	Lys	Glu	Asn	Met	Ser 210
Ile Pro Val	Ile	Ala 215	Asn	Gly	Asp	Ile	Arg 220	Ser	Leu	Lys	Glu	Ala 225
Glu Asn Val	Trp	Arg 230	Ile	Thr	Gly	Thr	Asp 235	Gly	Val	Met	Val	Ala 240
Arg Gly Leu		245					250					255
Thr Pro Leu		260					265					270
Leu Gly Thr	Pro	Tyr 275	Met	Cys	Phe	His	Gln 280	His	Leu	Met	Tyr	Met 285
Met Glu Lys	Ile	Thr 290	Ser	Arg	Gln	Glu	Lys 295	Arg	Val	Phe	Asn	Ala 300
Leu Ser Ser	Thr	Ser 305	Ala	Ile	Ile	Asp	Tyr 310	Leu	Thr	Asp	His	Tyr 315
Gly Ile												
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Leu Cys Leu Ser Pro Thr Tyr Glu Leu Ala Leu Gln Thr Gly Lys
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Val Ile Glu Gln Met Gly Lys Phe Tyr Pro Glu Leu Lys Leu Ala
                                    190
Tyr Ala Val Arg Gly Asn Lys Leu Glu Arg Gly Gln Lys Ile Ser
                200
Glu Gln Ile Val Ile Gly Thr Pro Gly Thr Val Leu Asp Trp Cys
                                    220
                215
Ser Lys Leu Lys Phe Ile Asp Pro Lys Lys Ile Lys Val Phe Val
                230
                                    235
Leu Asp Glu Ala Asp Val Met Ile Ala Thr Gln Gly His Gln Asp
                                    250
                245
Gln Ser Ile Arg Ile Gln Arg Met Leu Pro Arg Asn Cys Gln Met
                260
                                    265
Leu Leu Phe Ser Ala Thr Phe Glu Asp Ser Val Trp Lys Phe Ala
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                275
Gln Lys Val Val Pro Asp Pro Asn Val Ile Lys Leu Lys Arg Glu
                290
Glu Glu Thr Leu Asp Thr Ile Lys Gln Tyr Tyr Val Leu Cys Ser
                                     310
Ser Arg Asp Glu Lys Phe Gln Ala Leu Cys Asn Leu Tyr Gly Ala
                                                         330
                320
                                     325
Ile Thr Ile Ala Gln Ala Met Ile Phe Cys His Thr Arg Lys Thr
                335
                                    340
Ala Ser Trp Leu Ala Ala Glu Leu Ser Lys Glu Gly His Gln Val
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                                    355
Ala Leu Leu Ser Gly Glu Met Met Val Glu Gln Arg Ala Ala Val
                                    370
                365
Ile Glu Arg Phe Arg Glu Gly Lys Glu Lys Val Leu Val Thr Thr
                380
                                    385
Asn Val Cys Ala Arg Gly Ile Asp Val Glu Gln Val Ser Val Val
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Ile Asn Phe Asp Leu Pro Val Asp Lys Asp Gly Asn Pro Asp Asn
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Glu Thr Tyr Leu His Arg Ile Gly Arg Thr Gly Arg Phe Gly Lys
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Arg Gly Leu Ala Val Asn Met Val Asp Ser Lys His Ser Met Asn
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<sup>&</sup>lt;211> 582

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Homo sapiens

<sup>&</sup>lt;220>

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<sup>&</sup>lt;223> Incyte ID No: 2684552

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His	Суѕ	Gln	Arg	Asn 35	Ile	Gly	Met	Cys	Pro 40	Thr	Cys	Lys	Glu	Pro 45
Phe	Pro	Lys	Ser		Met	Glu	Thr	His	Met 55	Ala	Ala	Glu	His	
Gln	Val	Thr	Cys	Lys	Cys	Asn	Lys	Lys	Leu	Glu	Lys	Arg	Leu	
Lys	Lys	His	Glu		Thr	Glu	Cys	Pro		Arg	Leu	Ala	Val	Cys
Gln	His	Суѕ	Asp		Glu	Leu	Ser	Ile		Lys	Leu	Lys	Glu	
Glu	Δen	ጥህን	Cys	95 Glv	Δla	Δrα	Thr	Glu	100	Cvs	Glv	Asn	Cvs	105 Glv
				110					115					120
Arg	Asn	Val	Leu	Val 125	Lys	Asp	Leu	Lys	Thr 130	His	Pro	Glu	Val	Cys 135
Gly	Arg	Glu	Gly	Glu	Glu	Lys	Arg	Asn	Glu	Val	Ala	Ile	Pro	Pro
Asn	Ala	Τvr	Asp	140 Glu	Ser	Tro	Glv	Gln	145 Asp	Glv	Tle	Trp	Tle	150 Ala
71511	πια	171	пор	155	DCI	115	017	0111	160	017		110		165
Ser	Gln	Leu	Leu	Arg 170	Gln	Ile	Glu	Ala	Leu 175	Asp	Pro	Pro	Met	Arg 180
Leu	Pro	Arg	Arg	Pro	Leu	Arg	Ala	Phe	Glu 190	Ser	Asp	Val	Phe	His 195
Asn	Arg	Thr	Thr		Gln	Arg	Asn	Ile		Ala	Gln	Val	Ser	Ile 210
Gln	Asn	Asn	Leu	Phe	Glu	Glu	Gln	Glu	Arg	Gln	Glu	Arg	Asn	Arg
Glv	Gln	Gln	Pro	215 Pro	Lvs	Glu	Glv	Glv	220 Glu	Glu	Ser	Ala	Asn	225 Leu
_				230					235					240
Asp	Phe	Met	Leu	Ala 245	Leu	Ser	Leu	Gln	Asn 250	Glu	Gly	Gln	Ala	Ser 255
Ser	Val	Ala	Glu	Gln 260	Asp	Phe	Trp	Arg	Ala 265	Val	Cys	Glu	Ala	Asp 270
Gln	Ser	His	Gly	Gly	Pro	Arg	Ser	Leu		Asp	Ile	Lys	Gly	
Ala	Asp	Glu	Ile		Leu	Pro	Cys	Glu	Phe	Cys	Glu	Glu	Leu	Tyr
Pro	Glu	Glu	Leu	290 Leu	Ile	Asp	His	Gln	295 Thr	Ser	Cys	Asn	Pro	
Arg	Ala	Leu	Pro	305 Ser	Leu	Asn	Thr	Gly	310 Ser	Ser	Ser	Pro	Arg	315 Gly
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Val	Glu	Glu	Pro	Asp 335	Val	Ile	Phe	Gln	Asn 340	Phe	Leu	Gln	Gln	Ala 345
Ala	Ser	Asn	Gln	Leu 350	Asp	Ser	Leu	Met	Gly 355	Leu	Ser	Asn	Ser	His 360
Pro	Val	Glu	Glu		Ile	Ile	Ile	Pro		Glu	Phe	Cys	Gly	
Gln	Leu	Glu	Glu	Glu	Val	Leu	Phe	His	His	Gln	Asp	Gln	Cys	Asp
Gln	Arg	Pro	Ala	380 Thr	Ala	Thr	Asn	His	385 Val	Thr	Glu	Gly	Ile	390 Pro

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Arg Leu Asp	Ser		Pro	Gln	Glu	Thr		Pro	Glu	Leu	Pro	
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Arg Arg Val	Arg	425	GIN	GIÀ	Asp	Leu	430	ser	GIĀ	туг	Leu	435
Asp Thr Lys	Gln		Thr	Ala	Asn	Gly		Thr	Ser	Cys	Leu	
	_	440	_	_			445	m)	_	_	<b>~</b> 1	450
Pro Ser Arg	Pro	11e 455	Asn	Asn	Met	Thr	460	Thr	туr	Asn	GIN	ьеи 465
Ser Arg Ser	Thr	Ser	Gly	Pro	Arg	Pro	Gly 475	Cys	Gln	Pro	Ser	Ser 480
Pro Cys Val	Pro		Leu	Ser	Asn	Ser		Ser	Gln	Asp	Ile	
Gly Arg Asn	Arg		Ser	Gln	Asn	Gly		Ile	Ala	Pro	Gly	
Val Ser Val	Ile		Pro	Pro	Gln	Asn		Tyr	Pro	Glu	Asn	
Val Pro Ser	Phe		Pro	Gly	Pro	Ser		Arg	Tyr	Gly	Ala	
Gly Arg Ser	Glu		Gly	Arg	Asn	Ser		Val	Thr	Pro	Ala	
Ala Asn Tyr	Arg		Arg	Thr	Ala	Lys		Lys	Pro	Ser	Lys	
	G3	560	710	G1	C1	G1	565	G1	G1			570
Gln Gly Ala	GIY	575	Ala	GIU	GIU	GIU	580	GIU	GIU			
. ^ 1 ^ . 1 1												
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Cys Arg Arg Pro Val Leu His Trp Ser Phe Arg Phe Pro Asn Ile
                140
                                    145
Leu Lys Glu Ile Lys His Phe Asp Ala Asp Val Leu Cys Leu Gln
                155
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Glu Val Gln Glu Asp His Tyr Gly Ala Glu Ile Arg Pro Ser Leu
Glu Ser Leu Gly Tyr His Cys Glu Tyr Lys Met Arg Thr Gly Arg
                                    190
                185
Lys Pro Asp Gly Cys Ala Ile Cys Phe Lys His Ser Lys Phe Ser
                200
                                    205
Leu Leu Ser Val Asn Pro Val Glu Phe Phe Arg Pro Asp Ile Ser
                                    220
                215
Leu Leu Asp Arg Asp Asn Val Gly Leu Val Leu Leu Gln Pro
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                                    235
Lys Ile Pro Tyr Ala Ala Cys Pro Ala Ile Cys Val Ala Asn Thr
                                    250
                245
His Leu Leu Tyr Asn Pro Arg Gly Asp Ile Lys Leu Thr Gln
                                    265
                260
Leu Ala Met Leu Leu Ala Glu Ile Ser Ser Val Ala His Gln Lys
                275
                                    280
Asp Gly Ser Phe Cys Pro Ile Val Met Cys Gly Asp Phe Asn Ser
                                    295
                                                         300
                290
Val Pro Gly Ser Pro Leu Tyr Ser Phe Ile Lys Glu Gly Lys Leu
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                                    310
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Asn Tyr Glu Gly Leu Pro Ile Gly Lys Thr Val Ile
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Ser	Ser	Ser	Ala	125 Thr	Lys	Gln	Lvs	Val	130 Leu	Ser	Pro	Pro	His	135 Ile
				140	_		_		145					150
Lys	Ala	Asp	Phe	Asn 155	Leu	Ala	Asp	Phe	Glu 160	Cys	Glu	Glu	Asp	Pro 165
Phe	Asp	Asn	Leu	Glu 170	Leu	Lys	Thr	Ile	Asp 175	Glu	Lys	Glu	Glu	Leu 180
Arg	Asn	Ile	Leu	Val 185	Gly	Thr	Thr	Gly	Pro 190	Ile	Met	Ala	Gln	
Leu	Asp	Asn	Asn		Pro	Arg	Gly	Gly		Gly	Ser	Val	Leu	
Asp	Glu	Glu	Val	Leu	Ala	Ser	Leu	Glu	Arg	Ala	Thr	Leu	Asp	
Lys	Pro	Leu	His		Pro	Asn	Gly	Phe		Thr	Leu	Pro	Gln	Leu
Gly	Asn	Суѕ	Glu		Met	Ser	Leu	Ser		Lys	Val	Ser	Leu	
Pro	Ile	Pro	Ala		Ser	Asn	Ile	Lys		Leu	Ser	Phe	Pro	
Leu	Asp	Ser	Asp	260 Asp	Ser	Asn	Gln	Lys		Ala	Lys	Leu	Ala	
Thr	Phe	His	Ser	275 Thr	Ser	Cvs	Len	Ara	280 Asn	Glv	Thr	Phe	Gln	285 Asn
****	1110		501	290	501	0,0	Dou	9	295	0.2.7		1110	0111	300
Ser	Leu	Lys	Pro	Ser	Thr	Gln	Ser	Ser	Ala 310	Ser	Glu	Leu	Asn	Gly 315
His	His	Thr	Leu	Gly 320	Leu	Ser	Ala	Leu	Asn 325	Leu	Asp	Ser	Gly	Thr 330
Glu	Met	Pro	Ala	Leu 335	Thr	Ser	Ser	Gln	Met 340	Pro	Ser	Leu	Ser	Val 345
Leu	Ser	Val	Cys	Thr 350	Glu	Glu	Ser	Ser	Pro 355	Pro	Asn	Thr	Gly	Pro 360
Thr	Val	Thr	Pro		Asn	Phe	Ser	Val		Gln	Val	Pro	Asn	
Pro	Ser	Cys	Pro		Ala	Tyr	Ser	Glu		Gln	Met	Leu	Ser	
Ser	Glu	Arg	Gln		Val	Glu	Thr	Val		Asn	Met	Gly	Tyr	
Tyr	Glu	Cys	Val	Leu	Arg	Ala	Met	Lys	Lys	Lys	Gly	Glu	Asn	
Glu	Gln	Ile	Leu		Tyr	Leu	Phe	Ala		Gly	Gln	Leu	Cys	Glu
Lys	Gly	Phe	Asp		Leu	Leu	Val	Glu		Ala	Leu	Glu	Met	
Gln	Cys	Ser	Glu		Lys	Met	Met	Glu		Leu	Gln	Leu	Met	
Lys	Phe	Lys	Glu	455 Met	Gly	Phe	Glu	Leu	460 Lys	Asp	Ile	Lys	Glu	465 Val
Leu	Leu	Leu	His	470 Asn	Asn	Asp	Gln	Asp	475 Asn	Ala	Leu	Glu	Asp	480 Leu
Met	Ala	Arg	Ala	485 Gly	Ala	Ser			490					495
				500										

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<212> PRT

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Tyr	Glu	Asp	Lys	Asn 20	Leu	Leu	Lys	Lys	Asn 25	Lys	Asp	Glu	Ser	Ser 30
Val	Ser	Ile	Ser	His	Thr	Lys	Cys	Ser	Leu 40	Leu	Gly	Asp	Ile	Ser 45
λan	C117	Lvc	λcn		T10	Dro	λcn	Lys		Dho	Thr	202	Dho	
vsb	GIY	цуs	ASII	50	116	FIO	LSII	шуз	55	rne	1111	561	rne	60
Asn	Asn	Ser	Lys	Glu 65	Lys	Cys	Ser	Leu	Lys 70	His	Gln	Thr	Arg	Asn 75
Gln	Суѕ	Gln	Asn	Asn 80	Pro	Ser	Glu	Ile	Ile 85	Gln	Ser	Thr	Tyr	Gln 90
Glu	Thr	Gln	Asn	Lys	Ser	Ser	Ser	Leu	Ser	Thr	Ser	Ser	Ile	Leu
				95					100					105
Ser	Gln	His	Lys	Glu	Asn	Asn	Leu	Asp	Leu	Thr	Ser	Arg	Phe	Lys
				110					115					120
Glu	Gln	Glu	Met		Asn	Gly	Ile	Asp		Gln	Tyr	Ser	Asn	
				125					130					135
Thr	Thr	Ile	Asp		Gln	Ile	Суѕ	Thr		Lys	Tyr	Lys	Glu	_
				140			_		145			_	_	150
Ile	Ile	Asn	Glu	Asn 155	Tyr	Asn	Pro	Lys	Phe 160	Phe	Gly	Asn	Leu	Gln 165
Sor	λen	λcn	Sor		Tue	Acn	λen	Ser		Tla	Luc	₩.	Thr	
Ser	Asp	дър	Ser	170	БУБ	VSII	ASD	361	175	116	цуs	vai	1111	180
Leu	Glu	Met	Ser	Glu	Tyr	Leu	Asn	Lys	Tyr	Glu	Ser	Met	Ser	Ser
				185					190					195
Asn	Lys	Asp	Ser	Lys	Arg	Pro	Lys	Thr	Cys	Glu	Gln	Asn	Thr	Gln
				200					205					210
Leu	Asn	Ser	Ile		Asn	Tyr	Leu	Asn		Asp	Asn	Glu	Gly	
				215					220				_	225
Lys	Cys	Lys	Lys	Ser 230	Asp	Gln	Leu	Lys	Asn 235	Glu	Gln	Asp	Lys	G1n 240
G111	Δen	Pro	Thr		Glu	Lve	Ser	Gln		ጥኒፖ	Ser	Gln	Δτα	
Olu	1155	110	****	245	Olu	בינם	501	0111	250	- 7 -	001	0111	**** 9	255
Ser	Ile	Lys	Asp		Leu	Ser	Thr	Cys		Gln	Pro	Lvs	Asn	
		-	_	260				-	265			-		270
Glu	Val	Leu	Arg	Thr	Thr	Leu	Lys	His	Ser	Asn	Val	Trp	Arg	Lys
				275					280					285

His Asn Phe His Ser Leu Asp Gly Thr Ser Thr Arg Ala Phe His 290 295 300

Pro Gln Thr Gly Leu Pro Leu Leu Ser Ser Pro Val Pro Gln Arg 305 315

Lys Thr Gln Ser Gly Cys Phe Asp Leu Asp Ser Ser Leu Leu His 320 325

Leu Lys Ser Phe Ser Ser Arg Arg Asn Leu Ser 340

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<213> Homo sapiens

260 265

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Gly Gln Lys Leu Ieu Ile Gly Val Gly Pro Glu Gly Ile Ser Ile
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                 20
Cys Lys Asp Asp Phe Ser Pro Ile Asn Arg Ile Ala Tyr Pro Val
Val Gln Met Ala Thr Gln Ser Gly Lys Asn Val Tyr Leu Thr Val
Thr Lys Glu Ser Gly Asn Ser Ile Val Leu Leu Phe Lys Met Ile
                 65
                                     70
Ser Thr Arg Ala Ala Ser Gly Leu Tyr Arg Ala Ile Thr Glu Thr
                 80
                                    85
His Ala Phe Tyr Arg Cys Asp Thr Val Thr Ser Ala Val Met Met
                 95
                                    100
Gln Tyr Ser Arg Asp Leu Lys Gly His Leu Ala Ser Leu Phe Leu
                                    115
                110
Asn Glu Asn Ile Asn Leu Gly Lys Lys Tyr Val Phe Asp Ile Lys
                                    130
                125
Arg Thr Ser Lys Glu Val Tyr Asp His Ala Arg Arg Ala Leu Tyr
                140
                                    145
Asn Ala Gly Val Val Asp Leu Val Ser Arg Ser Asn Gln Ser Pro
                                    160
                155
Ser His Ser Pro Leu Lys Ser Ser Glu Ser Ser Met Asn Cys Ser
                170
                                    175
Ser Cys Glu Gly Leu Ser Cys Gln Gln Thr Arg Val Leu Gln Glu
                185
                                    190
Lys Leu Arg Lys Leu Lys Glu Ala Met Leu Cys Met Val Cys Cys
                200
                                    205
Glu Glu Glu Ile Asn Ser Thr Phe Cys Pro Cys Gly His Thr Val
                215
                                    220
Cys Cys Glu Ser Cys Ala Ala Gln Leu Gln Ser Cys Pro Val Cys
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                                    235
Arg Ser Arg Val Glu His Val Gln His Val Tyr Leu Pro Thr His
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Thr Ser Leu Leu Asn Leu Thr Val Ile
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365
                                     370
                                                         375
His Thr Gly Glu Lys Pro Phe Lys Cys Ser Glu Cys Gly Arg Ala
                380
                                     385
Phe Ser Gln Ser Ala Ser Leu Ile Gln His Glu Arg Ile His Thr
Gly Glu Lys Pro Tyr Arg Cys Asn Glu Cys Gly Lys Gly Phe Thr
                                     415
                                                         420
                410
Ser Ile Ser Arg Leu Asn Arg His Arg Ile Ile His Thr Gly Glu
                425
                                     430
Lys Phe Tyr Asn Cys Asn Glu Cys Gly Lys Ala Leu Ser Ser His
                440
                                     445
Ser Thr Leu Ile Ile His Glu Arg Ile His Thr Gly Glu Lys Pro
                455
                                     460
Cys Lys Cys Lys Val Cys Gly Lys Ala Phe Arg Gln Ser Ser Ala
                                     475
                470
Leu Ile Gln His Gln Arg Met His Thr Gly Glu Arg Pro Tyr Lys
                                     490
                485
Cys Asn Glu Cys Gly Lys Thr Phe Arg Cys Asn Ser Ser Leu Ser
                                     505
                500
Asn His Gln Arg Ile His Thr Gly Glu Lys Pro Tyr Arg Cys Glu
                515
                                     520
Glu Cys Gly Ile Ser Phe Gly Gln Ser Ser Ala Leu Ile Gln His
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                                     535
Arg Arg Ile His Thr Gly Glu Lys Pro Phe Lys Cys Asn Thr Cys
                545
                                     550
Gly Lys Thr Phe Arg Gln Ser Ser Ser Arg Ile Ala His Gln Arg
                560
                                     565
Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Asn Thr Cys Gly Lys
                575
                                     580
Leu Phe Asn His Arg Ser Ser Leu Thr Asn His Tyr Lys Ile His
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                                     595
Ile Glu Glu Asp Pro
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Gln Leu Lys Cys Asn Tyr Cys Lys Asn Ser Phe Cys Ser Lys Pro
Glu Ile Leu Glu Trp Glu Asn Lys Val His Gln Phe Cys Ser Lys
Thr Cys Ser Asp Asp Tyr Lys Lys Leu His Cys Ile Val Thr Tyr
                 50
                                      55
Cys Glu Tyr Cys Gln Glu Glu Lys Thr Leu His Glu Thr Val Asn
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Phe Ser	Gly	Val	Lys 80	Arg	Pro	Phe	Cys	Ser 85	Glu	Gly	Cys	Lys	Leu 90
Leu Tyr	Lys	Gln	Asp 95	Phe	Ala	Arg	Arg	Leu 100	Gly	Leu	Arg	Cys	Val 105
Thr Cys		_	110				_	115	_	_			120
Glu Leu			125					130					135
Lys Lys			140					145					150
Cys Lys			155					160					165
Glu Met			170					175					180
Cys Gln			185					190					195
Asn Leu Thr Gly			200					205					210
Lys Asn			215					220			_		225
Thr Tyr			230					235					240
Asp Thr			245					250					255
Val Tyr			260					265					270
Val Pro			275					280					285
Pro Ala			290					295					300
Glu Leu			305					310					315
Leu Thr			320					325					330
Thr Thr			335					340					345
Ser Asp	Leu	Leu	350 Lys	Asn	Ser	Asp	Pro	355 Glu	Thr	Gln	Ser	Ser	360 Met
Pro Asp	Val		365 Tyr	Glu	Pro	Asp	Leu	370 Asp		Glu	Ile	Asp	375 Phe
Pro Arg	Ala	Ala	380 Glu	Glu	Leu	Asp	Met	385 Glu	Asn	Glu	Phe	Leu	390 Leu
Pro Pro	Val	Phe	395 Gly	Glu	Glu	Tyr	Glu	400 Glu	Gln	Pro	Arg	Pro	
Ser Lys	Lys	Lys		Ala	Lys	Arg	Lys		Val	Ser	Gly	Tyr	
Ser His	Asp	Asp		Ser	Asp	Asn	Ser		Cys	Ser	Phe	Pro	
Lys Tyr	Thr	Tyr		Val	Asn	Ala	Trp		His	Trp	Val	Lys	
Arg Gln	Leu	Asp		Asp	Leu	Leu	Val		Asp	Glu	Leu	Lys	465 Ser 480
			470					475					400

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Ser Lys Ser Val Lys Leu Lys Glu Asp Leu Leu Ser His Thr Thr
                485
                                     490
Ala Glu Leu Asn Tyr Gly Leu Ala His Phe Val Asn Glu Ile Arg
                500
                                     505
Arg Pro Asn Gly Glu Asn Tyr Ala Pro Asp Ser Ile Tyr Tyr Leu
Cys Leu Gly Ile Gln Glu Tyr Leu Cys Gly Ser Asn Arg Lys Asp
                530
                                     535
Asn Ile Phe Ile Asp Pro Gly Tyr Gln Thr Phe Glu Gln Glu Leu
                545
                                     550
Asn Lys Ile Leu Arg Ser Trp Gln Pro Ser Ile Leu Pro Asp Gly
                560
                                     565
Ser Ile Phe Ser Arg Val Glu Glu Asp Tyr Leu Trp Arg Ile Lys
                575
                                     580
Gln Leu Gly Ser His Ser Pro Val Ala Leu Leu Asn Thr Leu Phe
                590
                                     595
Tyr Phe Asn Thr Lys Tyr Phe Gly Leu Lys Thr Val Glu Gln His
                605
                                     610
Leu Arg Leu Ser Phe Gly Thr Val Phe Arg His Trp Lys Lys Asn
Pro Leu Thr Met Glu Asn Lys Ala Cys Leu Arg Tyr Gln Val Ser
                                     640
                635
Ser Leu Cys Gly Thr Asp Asn Glu Asp Lys Ile Thr Thr Gly Lys
                650
                                     655
Arg Lys His Glu Asp Asp Glu Pro Val Phe Glu Gln Ile Glu Asn
                665
                                     670
Thr Ala Asn Pro Ser Arg Cys Pro Val Lys Met Phe Glu Cys Tyr
                680
                                     685
Leu Ser Lys Ser Pro Gln Asn Leu Asn Gln Arg Met Asp Val Phe
                                     700
                                                         705
                695
Tyr Leu Gln Pro Glu Cys Ser Ser Ser Thr Asp Ser Pro Val Trp
                                     715
                710
Tyr Thr Ser Thr Ser Leu Asp Arg Asn Thr Leu Glu Asn Met Leu
                                     730
                725
Val Arg Val Leu Leu Val Lys Asp Ile Tyr Asp Lys Asp Asn Tyr
                740
Glu Leu Asp Glu Asp Thr Asp
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				35					40					45
Ala	Gly	Leu	Pro	Gln 50	Leu	Gly	Lys	Arg	Leu 55	Pro	Gln	Phe	Asp	Asp 60
Asp	Ala	Asp	Thr	Gly	Lys	Lys	Lys	Lys	Lys	Thr	Arg	Gly	Asp	His
Phe	Lys	Leu	Arg	65 Phe	Arg	Lys	Asn	Phe	70 Gln	Ala	Leu	Leu	Glu	75 Glu
			_	80					85					90
Gln	Asn	Leu	Ser		Ala	Glu	Gly	Pro	Asn	Tyr	Leu	Thr	Ala	
				95					100					105
Ala	Gly	Pro	Pro		Arg	Pro	Gln	Arg	Pro 115	Phe	Cys	Ala	Val	Cys 120
~ 3		_	_	110	_	1	~				<b>~</b> 1			
GIA	Pne	Pro	Ser	125	Tyr	Thr	Cys	vaı	Ser 130	Cys	GIĀ	Ala	Arg	Tyr 135
Cys	Thr	Val	Arg	_	Leu	Gly	Thr	His	Gln	Glu	Thr	Arg	Cys	Leu
				140					145					150
Lys	Trp	Thr	Val											
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Phe	Ile	Asp	Phe	Ser 200	Ser	Leu	Thr	Ser	His 205	Leu	Arg	Ser	His	Thr 210
Gly	Glu	Lys	Pro	Tyr 215	Lys	Суѕ	Lys	Glu	Cys 220	Gly	Lys	Ala	Phe	Ser 225
Tyr	Ser	Ser	Thr	Phe 230	Arg	Arg	His	Thr	Ile 235	Thr	His	Thr	Gly	Glu 240
Lys	Pro	Tyr	Lys	Cys 245	Lys	Glu	Суѕ	Ala	Glu 250	Ala	Phe	Ser	Tyr	Ser 255
Ser	Thr	Phe	Arg	Arg 260	His	Met	Ile	Ser	His 265	Thr	Gly	Glu	Lys	Pro 270
His	Lys	Суѕ	Lys	Glu 275	Суѕ	Gly	Glu	Ala	Phe 280	Ser	Tyr	Ser	Ser	Ala 285
Phe	Arg	Arg	His	Met 290	Ile	Thr	His	Thr	Gly 295	Glu	Lys	Pro	Tyr	Glu 300
Суѕ	Lys	Gln	Cys	Gly 305	Lys	Thr	Phe	Ile	Tyr 310	Leu	Gln	Ser	Phe	Arg 315
_				320			_		325		_		Суѕ	330
	_	_		335					340				Arg	345
				350					355				Gln	360
				365					370				Met	375
			_	380	_		_		385	_			Gly	390
				395					400				Thr	405
				410					415				Ala	420
				425					430				Pro	435
				440					445				Tyr	450
				455					460				Glu	465
				470					475				Pro	480
				485					490				Pro	495
				500					505				Ser	510
				515					520	_			Gln	525
				530				_	535				Arg	540
				545					550				Asn	555
Gly	His	Pro	Pro	Ala 560	Asn	Glu	Phe	Met	Cys 565	Ser	Ala	Ser	Glu	Lys 570
Ser	His	Gln	Glu	Arg 575	Asp	Leu	Ile	Lys	Val 580	Val	Asn	Met	Val	Leu 585
Pro	Leu													

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Val Ala Ala Thr Ala Pro Gly Pro Glu Met Val Glu Arg Arg Gly
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Pro Gly Arg Pro Arg Thr Asp Gly Glu Asn Val Phe Thr Gly Gln
                 35
                                      40
Ser Lys Ile Tyr Ser Tyr Met Ser Pro Asn Lys Cys Ser Gly Met
                                      55
Arg Phe Pro Leu Gln Glu Glu Asn Ser Val Thr His His Glu Val
                                      70
Lys Cys Gln Gly Lys Pro Leu Ala Gly Ile Tyr Arg Lys Arg Glu
Glu Lys Arg Asn Ala Gly Asn Ala Val Arg Ser Ala Met Lys Ser
                 95
                                    100
Glu Glu Gln Lys Ile Lys Asp Ala Arg Lys Gly Pro Leu Val Pro
                110
                                    115
Phe Pro Asn Gln Lys Ser Glu Ala Ala Glu Pro Pro Lys Thr Pro
                125
                                    130
Pro Ser Ser Cys Asp Ser Thr Asn Ala Ile Ala Lys Gln Ala
                140
                                    145
Leu Lys Lys Pro Ile Lys Gly Lys Gln Ala Pro Arg Lys Lys Ala
                155
Gln Gly Lys Thr Gln Gln Asn Arg Lys Leu Thr Asp Phe Tyr Pro
                170
                                     175
Val Arg Arg Ser Ser Arg Lys Ser Lys Ala Glu Leu Gln Ser Glu
                185
                                                         195
                                    190
Glu Arg Lys Arg Ile Asp Glu Leu Ile Glu Ser Gly Lys Glu Glu
                200
                                    205
Gly Met Lys Ile Asp Leu Ile Asp Gly Lys Gly Arg Gly Val Ile
                                    220
                215
Ala Thr Lys Gln Phe Ser Arg Gly Asp Phe Val Val Glu Tyr His
                230
                                    235
Gly Asp Leu Ile Glu Ile Thr Asp Ala Lys Lys Arg Glu Ala Leu
                245
                                    250
Tyr Ala Gln Asp Pro Ser Thr Gly Cys Tyr Met Tyr Tyr Phe Gln
                                    265
Tyr Leu Ser Lys Thr Tyr Cys Val Asp Ala Thr Arg Glu Thr Asn
                275
                                    280
Arg Leu Gly Arg Leu Ile Asn His Ser Lys Cys Gly Asn Cys Gln
                290
                                    295
Thr Lys Leu His Asp Ile Asp Gly Val Pro His Leu Ile Leu Ile
                                    310
                305
Ala Ser Arg Asp Ile Ala Ala Gly Glu Glu Leu Leu Tyr Asp Tyr
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<b>01</b>	•	3		320	<b>3</b> 1-	<b>G</b>	<b>-</b> 1-	<b>01</b>	325	77.1 m	D	<b></b>	<b>T</b>	330
GIA	Asp	Arg	ser	335	Ala	ser	TIE	Glu	340	HIS	Pro	Trp	Leu	Lys 345
His														
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	2> PI													
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	_		featı e ID		2998	3209								
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Glu	Glu	Leu	Glu	_	Asp	Phe	Lys	Lys		Lys	Gln	Ile	Lys	
Arg	Met	Lys	Lys	Thr	Asp	Trp	Leu	Phe	Leu 40	Asn	Ala	Суѕ	Val	Gly 45
Val	Val	Glu	Gly		Leu	Ala	Ala	Ile	Glu 55	Ala	Tyr	Lys	Ser	Ser 60
Gly	Gly	Asp	Ile	Ala 65	Arg	Gln	Leu	Thr	Ala 70	Asp	Glu	Val	Arg	Leu 75
Leu	Asn	Arg	Pro	Ser 80	Ala	Phe	Asp	Val	Gly 85	Tyr	Thr	Leu	Val	His 90
Leu	Ala	Ile	Arg	Phe 95	Gln	Arg	Gln	Asp	Met 100	Leu	Ala	Ile	Leu	Leu 105
Thr	Glu	Val	Ser	Gln 110	Gln	Ala	Ala	Lys	Cys 115	Ile	Pro	Ala	Met	Val 120
Суѕ	Pro	Glu	Leu		Glu	Gln	Ile	Arg		Glu	Ile	Ala	Ala	
Leu	His	Gln	Arg		Gly	Asp	Phe	Ala		Tyr	Phe	Leu	Thr	
Leu	Val	Thr	Phe		Leu	Pro	Ala	Asp		Glu	Asp	Leu	Pro	
Thr	Val	Gln		Lys 170	Leu	Phe	Asp	Glu		Leu	Asp	Arg	Asp	
Gln	Lys	Glu			Glu	Glu	Ser	Pro		Ile	Asn	Trp	Ser	
Glu	Leu	Ala	Thr		Leu	Asp	Ser	Arg		Tyr	Ala	Leu	Trp	
Arg	Thr	Ala	Gly		Cys	Leu	Leu	Asp		Val	Leu	Gln	Ala	
Trp	Gly	Ile	Tyr		Lys	Asp	Ser	Val		Arg	Lys	Ala	Leu	
Asp	Ser	Leu	His		Cys	Ser	His	Trp		Tyr	Thr	Arg	Trp	
Asp	Trp	Glu	Ser		Tyr	Ser	Gln	Ser		Gly	Leu	His	Phe	
Leu	Arg	Glu	Glu		Trp	Gln	Glu	Asp		Ala	Phe	Ile	Leu	

Leu Ala Ser Gln Pro Gly Ala Ser Leu Glu Gln Thr His Ile Phe 290 295 Val Leu Ala His Ile Leu Arg Arg Pro Ile Ile Val Tyr Gly Val 305 310 Lys Tyr Tyr Lys Ser Phe Arg Gly Glu Thr Leu Gly Tyr Thr Arg Phe Gln Gly Val Tyr Leu Pro Leu Leu Trp Glu Gln Ser Phe Cys 335 340 Trp Lys Ser Pro Ile Ala Leu Gly Tyr Thr Arg Gly His Phe Ser 350 355 Ala Leu Val Ala Met Glu Asn Asp Gly Tyr Gly Asn Arg Gly Ala 365 370 Gly Ala Asn Leu Asn Thr Asp Asp Val Thr Ile Thr Phe Leu 380 385 Pro Leu Val Asp Ser Glu Arg Lys Leu Leu His Val His Phe Leu 395 400 Ser Ala Gln Glu Leu Gly Asn Glu Gln Gln Glu Lys Leu Leu 410 415 Arg Glu Trp Leu Asp Cys Cys Val Thr Glu Gly Val Leu Val 425 430 Ala Met Gln Lys Ser Ser Arg Arg Arg Asn His Pro Leu Val Thr 440 445 Gln Met Val Glu Lys Trp Leu Asp Arg Tyr Arg Gln Ile Arg Pro 455 460 Cys Thr Ser Leu Ser Asp Gly Glu Glu Asp Glu Asp Glu Asp 470 475 480 Glu

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- <212> PRT
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- <223> Incyte ID No: 3340296

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 Thr
 Gly
 Ser
 Leu
 Ser
 Asp
 Val
 Glu
 Asp
 Leu
 Glu
 Asp
 Leu
 Glu
 Asp
 Leu
 Lys
 Met
 Asp
 Ser
 Asn
 Lys
 Glu
 Lys
 Met
 Asp
 Ser
 Asn
 Cys
 Glu
 Asp
 Asp</th

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120
                110
                                    115
Leu Arg Leu Ala Ser Ser Tyr Ile Ala His Leu Arg Gln Ile Leu
                125
                                    130
Ala Asn Asp Lys Tyr Glu Asn Gly Tyr Ile His Pro Val Asn Leu
                140
                                     145
Thr Trp Pro Phe Met Val Ala Gly Lys Pro Glu Ser Asp Leu Lys
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                                    160
Glu Val Val Thr Ala Ser Arg Leu Cys Gly Thr Thr Ala Ser
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Lys Leu Ser Leu Tyr Ser Val Cys Pro Ser Leu Val Val Arg Pro
                 20
                                     25
Lys Pro Leu His Ser Cys Thr Gly Ser Pro Ser Leu Arg Ala Tyr
                                     40
                 35
Pro Leu Leu Ser Val Ile Thr Arg Gln Pro Thr Val Ile Ser His
Leu Val Pro Ala Thr Pro Gly Ile Ala Gln Ala Leu Ser Cys His
                 65
                                     70
Gln Val Thr Glu Ala Val Ser Ala Glu Ala Pro Gly Gly Glu Ala
                                     85
Leu Ala Ser Ser Glu Ser Glu Thr Glu Gln Pro Thr Pro Arg Gln
                 95
                                     100
                                                         105
Lys Lys Pro Arg Arg Ser Arg Thr Ile Phe Thr Glu Leu Gln Leu
                110
                                    115
                                                         120
Met Gly Leu Glu Lys Lys Phe Gln Lys Gln Lys Tyr Leu Ser Thr
                125
                                    130
Pro Asp Arg Leu Asp Leu Ala Gln Ser Leu Gly Leu Thr Gln Leu
                140
                                    145
Gln Val Lys Thr Trp Tyr Gln Asn Arg Arg Met Lys Trp Lys Lys
                155
                                    160
Met Val Leu Lys Gly Gly Gln Glu Ala Pro Thr Lys Pro Lys Gly
                170
                                    175
Arg Pro Lys Lys Asn Ser Ile Pro Thr Ser Glu Glu Ile Glu Ala
                185
                                    190
Glu Glu Lys Met Asn Ser Gln Ala Gln Gly Gln Glu Gln Leu Glu
Pro Ser Gln Gly Gln Glu Glu Leu Cys Glu Ala Gln Glu Pro Lys
                215
                                    220
Ala Arg Asp Val Pro Leu Glu Met Ala Glu Pro Pro Asp Pro Pro
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                                    235
Gln Glu Leu Pro Ile Pro Ser Ser Glu Pro Pro Pro Leu Ser
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245

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Pro Ile Cys Leu Glu Leu Leu Thr Glu Pro Leu Ser Leu Asp Cys
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                                      25
Gly His Ser Phe Cys Gln Ala Cys Ile Thr Ala Lys Ile Lys Glu
                                      40
Ser Val Ile Ile Ser Arg Gly Glu Ser Ser Cys Pro Val Cys Gln
                                      55
Thr Arg Phe Gln Pro Gly Asn Leu Arg Pro Asn Arg His Leu Ala
Asn Ile Val Glu Arg Val Lys Glu Val Lys Met Ser Pro Gln Glu
                 80
                                      85
Gly Gln Lys Arg Asp Val Cys Glu His His Gly Lys Lys Leu Gln
                                     100
Ile Phe Cys Lys Glu Asp Gly Lys Val Ile Cys Trp Val Cys Glu
                                     115
                110
Leu Ser Gln Glu His Gln Gly His Gln Thr Phe Arg Ile Asn Glu
                125
                                     130
Val Val Lys Glu Cys Gln Glu Lys Leu Gln Val Ala Leu Gln Arg
                140
                                     145
Leu Ile Lys Glu Asp Gln Glu Ala Glu Lys Leu Glu Asp Asp Ile
                                     160
                155
Arg Gln Glu Arg Thr Ala Trp Lys Asn Tyr Ile Gln Ile Glu Arg
                                     175
Gln Lys Ile Leu Lys Gly Phe Asn Glu Met Arg Val Ile Leu Asp
                                     190
                                                         195
                185
Asn Glu Glu Gln Arg Glu Leu Gln Lys Leu Glu Glu Gly Glu Val
                200
                                     205
Asn Val Leu Asp Asn Leu Ala Ala Ala Thr Asp Gln Leu Val Gln
                215
                                     220
Gln Arg Gln Asp Ala Ser Thr Leu Ile Ser Asp Leu Gln Arg Arg
                                     235
                230
Leu Thr Gly Ser Ser Val Glu Met Leu Gln Asp Val Ile Asp Val
                                     250
                245
Met Lys Arg Ser Glu Ser Trp Thr Leu Lys Lys Pro Lys Ser Val
                260
                                     265
Ser Lys Lys Leu Lys Ser Val Phe Arg Val Pro Asp Leu Ser Gly
                                     280
Met Leu Gln Val Leu Lys Glu Leu Thr Asp Val Gln Tyr Tyr Trp
                                                         300
                290
                                     295
Val Asp Val Met Leu Asn Pro Gly Ser Ala Thr Ser Asn Val Ala
                305
                                     310
Ile Ser Val Asp Gln Arg Gln Val Lys Thr Val Arg Thr Cys Thr
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				320					325					330
Phe	Lys	Asn	Ser	Asn	Pro	Cys	Asp	Phe	Ser	Ala	Phe	Gly	Val	Phe
				335					340					345
Gly	Cys	Gln	Tyr	Phe	Ser	Ser	Gly	Lys	Tyr	Tyr	Trp	Glu	Val	Asp
				350					355					360
Val	Ser	Gly	Lys	Ile	Ala	Trp	Ile	Leu	Gly	Val	His	Ser	Lys	Ile
				365					370					375
Ser	Ser	Leu	Asn	Lys	Arg	Lys	Ser	Ser	Gly	Phe	Ala	Phe	Asp	
				380					385					390
Ser	Val	Asn	Tyr		Lys	Val	Tyr	Ser		Tyr	Arg	Pro	Gln	
				395					400					405
Gly	Tyr	Trp	Val		Gly	Leu	Gln	Asn		Cys	Glu	Tyr	Asn	
_	_			410					415	_		_		420
Phe	Glu	Asp	Ser		Ser	Ser	Asp	Pro		Val	Leu	Thr	Leu	
			_	425	_	_			430	_,	_	_	_	435
Met	Ala	Val	Pro		Cys	Arg	IIe	GIY		Phe	Leu	Asp	Tyr	
	<b>~</b> 3			440	<b>m</b> 1		_		445	_		~1		450
Ата	GTĀ	Ile	vaı		Pne	Pne	Asn	Val		Asn	HIS	GTĀ	Ala	
<b>-1</b> -	m	T	Dl	455	01	<b>~</b>	7	Dh.	460	7	D	77-	m	465
тте	TYL	Lys	Pne		GIÀ	Cys	Arg	Pne		Arg	PIO	Ата	Tyr	
The ease	Dho	7 ~~	Dwo	470	7 ~~	C	T 0	1707	475 Dwo	Mot	mb.~	1701	C	480
тĀГ	FIIE	Asn	PLO	485	ASII	cys	ьeu	vai	490	Mec	THE	val	cys	495
Dro	Ser	cor		400					490					490
FIO	Ser	Set												

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<211> 1299

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<213> Homo sapiens

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<221> misc\_feature

<223> Incyte ID No: 095477

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Tyr	Gl	n A	Arg	Ser	Phe 140	Asp	Glu	Val	Glu	Gly 145	Va:	L P	he (	Gly A	Arg	Gly 150
Gly	Gl	y A	Arg	Glu	Met 155	His	Arg	Ser	Gln		Tr	o G	lu '	Glu	Arg	Gly 165
				Phe	Glu					T/2						100
				Glu	Gly 185					190	)					1))
				Ser	Glu 200					205	)					210
				Glu	215					220	)					223
				Gly	230					235	•					240
				Gly	245					251	,					200
				Phe	260					26	>					270
				Gly	275					28	U					203
				Cys	290	1				29	5					200
				Gly	305					31	U					212
					320	)				32	5					Glu 330 Ala
					331	5				34	U					Ala 345 Asp
					350	)				35	5					360 Ser
					36	5				37	0					375 Glu
					3.8	0				38	35					390 Thr 405
					39	5				4(	) ()					405 Ala
					41	0				4.	Lb					n Gln
					12	5				4.	30					ı Ile
					44	Λ				er P	45 ro 7					o Val
					4.5	5				Ly M	et (					465 r Thr 480
G1	u	Pro	o As	p As	47 p Gl	'0 .u Gl	.u G]	y Le	eu Ly	/s H	75 is I	Leu	G1	u Gl	n Gl	480 n Ala 495
					48 1 A	35 .a Ty				4 sp S	90 er <i>1</i>					p Glu 510
					5( r Ly	)0 /s Le				is A	U5					1 Ser 525
IJ	le	Pr	o Le	eu Me	et H	L5 Ls G: 30	lu Ai	la M	et G	ln L		Trp	ту	т Ту	r Ly	s Asp 540

Pro	Gln	Gly	Glu	Ile 545	Gln	Gly	Pro	Phe	Asn 550	Asn	Gln	Glu	Met	Ala 555
Glu	Trp	Phe	Gln	Ala 560	Gly	Tyr	Phe	Thr	Met 565	Ser	Leu	Leu	Val	Lys 570
_		_	_	575		Phe			580					585
				590		Phe			595					600
				605		Gln			610					615
				620		Met			625					630
				635		Ala			640					645
				650		Gln			655					660
				665		Lys Ser			670					675
				680		Thr			685					690
				695		Leu			700					705
				710		Gln			715					720
				725		Arg			730					735
				740		Arg			745					750
				755		Gln			760					765
				770		Arg			775					780
				785		Ile			790					795
				800		Glu			805					810
				815		Glu			820					825
				830		Ala			835					840
Glu	Ala	Gln	Arg	845 Arg	Leu	Glu	Glu	Asn	850 Arg	Leu	Arg	Met	Glu	855 Glu
Glu	Ala	Ala	Arg	860 Leu	Arg	His	Glu	Glu	865 Glu	Glu	Arg	Lys	Arg	870 Lys
Glu	Leu	Glu	Val	875 Gln	Arg	Gln	Lys	Glu	880 Leu	Met	Arg	Gln	Arg	885 Gln
Gln	Gln	Gln	Glu	890 Ala	Leu	Arg	Arg	Leu		Gln	Gln	Gln	Gln	
Gln	Gln	Leu	Ala	905 Gln	Met	Lys	Leu	Pro		Ser	Ser	Thr	Trp	915 Gly
Gln	Gln	Ser	Asn		Thr	Ala	Cys	Gln		Gln	Ala	Thr	Leu	
				935					940					945

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Leu Ala Glu Ile Gln Lys Leu Glu Glu Glu Arg Glu Arg Gln Leu
                950
                                    955
Arg Glu Glu Gln Arg Arg Gln Gln Arg Glu Leu Met Lys Ala Leu
                                    970
Gln Gln Gln Gln Gln Gln Gln Lys Leu Ser Gly Trp Gly
                980
                                    985
Asn Val Ser Lys Pro Ser Gly Thr Thr Lys Ser Leu Leu Glu Ile
                                   1000
                995
Gln Gln Glu Glu Ala Arg Gln Met Gln Lys Gln Gln Gln Gln
               1010
                                   1015
Gln Gln His Gln Gln Pro Asn Arg Ala Arg Asn Asn Thr His Ser
               1025
                                   1030
Asn Leu His Thr Ser Ile Gly Asn Ser Val Trp Gly Ser Ile Asn
               1040
                                   1045
Thr Gly Pro Pro Asn Gln Trp Ala Ser Asp Leu Val Ser Ser Ile
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                                   1060
                                                       1065
Trp Ser Asn Ala Asp Thr Lys Asn Ser Asn Met Gly Phe Trp Asp
               1070
                                   1075
Asp Ala Val Lys Glu Val Gly Pro Arg Asn Ser Thr Asn Lys Asn
               1085
                                   1090
Lys Asn Asn Ala Ser Leu Ser Lys Ser Val Gly Val Ser Asn Arg
               1100
                                   1105
Gln Asn Lys Lys Val Glu Glu Glu Lys Leu Lys Leu Phe
               1115
                                   1120
Gln Gly Val Asn Lys Ala Gln Asp Gly Phe Thr Gln Trp Cys Glu
               1130
                                   1135
Gln Met Leu His Ala Leu Asn Thr Ala Asn Asn Leu Asp Val Pro
               1145
                                   1150
Thr Phe Val Ser Phe Leu Lys Glu Val Glu Ser Pro Tyr Glu Val
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                                  1165
                                                       1170
His Asp Tyr Ile Arg Ala Tyr Leu Gly Asp Thr Ser Glu Ala Lys
               1175
                                   1180
Glu Phe Ala Lys Gln Phe Leu Glu Arg Arg Ala Lys Gln Lys Ala
                                   1195
               1190
Asn Gln Gln Arg Gln Gln Gln Gln Leu Pro Gln Gln Gln Gln Gln
                                   1210
               1205
Gln Pro Pro Gln Gln Pro Pro Gln Gln Gln Gln Gln Asp Ser
                                   1225
               1220
Val Trp Gly Met Asn His Ser Thr Leu His Ser Val Phe Gln Thr
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                                   1240
Asn Gln Ser Asn Asn Gln Gln Ser Asn Phe Glu Ala Val Gln Ser
               1250
                                   1255
Gly Lys Lys Lys Lys Gln Lys Met Val Arg Ala Asp Pro Ser
               1265
                                  1270
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Leu Leu Gly Phe Ser Val Asn Ala Ser Ser Glu Arg Leu Asn Met
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Gly Glu Ile Glu Thr Leu Asp Asp Tyr
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<213> Homo sapiens

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<223> Incyte ID No: 1399169
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1 5

Thr Glu Pro Trp Ser Ile Arg

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Asp Gln Asn Glu Glu Lys Gly Glu Ala Gly Lys Glu Asp Lys Asp 140 145 Glu Lys Gly Glu Glu Asp Gly Lys Glu Asp Lys Asn Gly Asn Glu 155 Lys Gly Glu Asp Ala Lys Glu Lys Glu Asp Gly Lys Lys Gly Glu Asp Gly Lys Gly Asn Gly Glu Asp Gly Lys Glu Lys Gly Glu Asp 185 190 Glu Lys Glu Glu Glu Asp Arg Lys Glu Thr Gly Asp Gly Lys Glu 200 Asn Glu Asp Gly Lys Glu Lys Gly Asp Lys Lys Glu Gly Lys Asp 215 220 Val Lys Val Lys Glu Asp Glu Lys Glu Arg Glu Asp Gly Lys Glu 230 235 Asp Glu Gly Gly Asn Glu Glu Glu Ala Gly Lys Glu Lys Glu Asp 250 245 Leu Lys Glu Glu Glu Glu Gly Lys Glu Glu Asp Glu Ile Lys Glu 265 Asp Asp Gly Lys Lys Glu Glu Pro Gln Ser Ile Val 275 <210> 29 <211> 186 <212> PRT <213> Homo sapiens <220> <221> misc\_feature <223> Incyte ID No: 1596668 <400> 29 Met Asp Ala Asp Ser Asp Val Ala Leu Asp Ile Leu Ile Thr Asn Val Val Cys Val Phe Arg Thr Arg Cys His Leu Asn Leu Arg Lys Ile Ala Leu Glu Gly Ala Asn Val Ile Tyr Lys Arg Asp Val Gly 40 Lys Val Leu Met Lys Leu Arg Lys Pro Arg Ile Thr Ala Thr Ile

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Leu Gly Phe Gln Val Ile Phe Thr Asp Phe Lys Val Val Asn Val

Leu Ala Val Cys Asn Met Pro Phe Glu Ile Arg Leu Pro Glu Phe

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Ser	Ser	Glu	Glu	Leu 335	Ala	Glu	Ala	Pro	Thr 340	Glu	Ala	Pro	Ser	Pro 345
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			Trp	410					415					420
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			Thr	440					445					450
			Met	455					460					465
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-		Pro		575			-	Thr	580	_		-		585
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Val Glu Met Leu Met Glu Asn Glu Gly Pro Gln Ser Gly Thr Asn
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